

# your Gateway Windows network installationguide 802.11g wireless series | PC Card model WGC-220



Installing

Configuring

Gateway.

### Contents

1	Windows XP1
	Step 1: Installing the hardware and software 2
	Installing the PC Card in your computer
	Installing the PC Card driver
	Step 2: Configuring the PC Card5
	Naming the computers and the workgroup5
	Step 3: Configuring the TCP/IP protocol
	Terms you should know 12
	Setting up a DHCP IP address for each computer . 12
	Turning the wireless emitter off
	Where to go from here 16
	Creating your wireless Ethernet network 16
	Using your wireless Ethernet network 16
	Troubleshooting your wireless Ethernet network 16
2	Windows 98SE, Windows Me, and Windows 200017
	Step 1: Installing the hardware and software 18
	Installing the Gateway Wireless Monitor
	Installing the PC Card in your computer
	Installing the PC Card driver
	Step 2: Configuring the PC Card 24
	Naming the computers and the workgroup 24
	Step 3: Configuring the TCP/IP protocol
	Terms you should know
	Setting up a DHCP IP address for each computer . 28
	Turning the wireless emitter off
	Where to go from here
	Creating your wireless Ethernet network
	Using your wireless Ethernet network
	Troubleshooting your wireless Ethernet network 34
Α	Getting Help 35
	Technical Support 35
	Automated troubleshooting system
	Telephone numbers
в	Safety, Regulatory, and Legal Information 37

### Windows XP

This chapter describes how to install a Gateway wireless Ethernet PC Card on your Windows XP computer and configure Windows XP for a wireless Ethernet network. Complete these tasks in sequence:

- "Step 1: Installing the hardware and software" on page 2.
- "Step 2: Configuring the PC Card" on page 5.
- "Step 3: Configuring the TCP/IP protocol" on page 12.

If you need to install and configure the PC Card for other versions of Windows, see "Windows 98SE, Windows Me, and Windows 2000" on page 17.



# Step 1: Installing the hardware and software

### Installing the PC Card in your computer

Use the following instructions to install the PC Card in your computer.



To install the PC Card in your computer:

 Push the card firmly into the PC Card slot label-side up until the black antenna is the only thing protruding from the side of your computer.



If this is the first time you have installed this PC Card into your computer, the Found New Hardware Wizard opens. To complete the PC Card installation, go to "Installing the PC Card driver" on page 2.

### Installing the PC Card driver

Use the following instructions to install the PC Card driver for Windows XP.

### To install the PC Card driver

**1** When the Found New Hardware Wizard opens, insert the installation CD in the CD drive.



2 Click Install the software automatically (Recommended), then click Next. The wizard displays a list of recommended drivers to install.

Found New Hardware Wizard							
Please select the best match for your hardware from the list below.							
Gateway Wireless 802.11B PC Ca	ard Adapter						
Description	Version	Location					
Gateway Wireless 802.11B PC Card	3.10.53.5	d:\driver\winxp\netga.inf					
Gateway Wireless 802.11B PC Card	3.10.53.5	d:\driver\win9x\netga.inf					
Gateway Wireless 802.11B PC Card	3.10.53.5	d:\driver\win2000\netga.inf					
This driver is not digitally signed     Iel me why driver signing is important	41						
	< <u>B</u> ack	: <u>N</u> ext > Cancel					

3 Click the Gateway Wireless 802.11G PC Card located in the d:\driver\winxp folder on the installation CD, then click Next.



- **4** When a message tells you that the driver has not passed Windows Logo testing, click **Continue Anyway**. The device driver files are copied to the hard drive.
- **5** Click **Finish** to complete the installation.

# Step 2: Configuring the PC Card

### Naming the computers and the workgroup

The first time you use networking in your computer, you need to use the Windows XP Network Setup Wizard to name each computer and the workgroup and to select other network settings in Windows XP.

Important p

The network setup procedure uses the Windows XP Network Setup Wizard. The example screens show the screens that typically appear in the course of using the wizard. If your network situation differs from that used in this example, you may encounter additional screens or screens with different selections. Make sure that you read each screen in the wizard and make your selections based on your particular network situation.



To run the Windows XP Network Setup Wizard:

1 Click the Network Setup Wizard icon 🔮 on the Windows XP taskbar. The Network Setup Wizard opens.

- OR -

Click Start, All Programs, Accessories, Communications, then click Network Setup Wizard. The Network Setup Wizard opens.



**2** Click **Next** to continue through the wizard.

**3** Click Next. *The wizard found disconnected network hardware* screen opens.

Network Setup Wizard						
The wizard found disconnected network hardware.						
The network connections listed below otherwise connect your network hardw Connections:	are disconnected. Plug in your network cables or vare, and then click Next.					
	Gateway Wineless 802,11G Adapter Intel(R) PR0/100 VE Network Connection					
[v] Ignore disconnected network hard	warej					

**4** Click to select the **Ignore disconnected network hardware** check box, then click **Next**. The *Select a connection method* screen opens.

Network Setup Wizard
Select a connection method.
Select the statement that best describes this computer:
O This gomputer connects directly to the Internet. The other computers on my network connect to the Internet through this computer. <u>View an example</u> .
[This computer connects to the Internet through another computer on my network or through is residential adenvey. View an example.
○ <u>O</u> ther
Leam more about <u>home or small office network configurations</u> .
< Back Next > Cancel

- 5 Click This computer connects to the Internet through another computer on my network or through a residential gateway, then click Next.
- 6 If the Your computer has multiple connections screen opens, click Let me choose the connections to my network, then click Next.
- 7 On the *Select the connections to bridge* screen, click to select the **Wireless Network Connection** check box.

Network Setup Wizard	
Select the connections to bridge.	
computers. Clear the check box for connections that c	that connects this computer to your other network onnect this computer directly to the Internet.
🗹 💥 Wireless Network Connection 2	1394 Net Adapter Gateway Wireless 802.11G Adapter Intel(R) PR0/100 VE Network Connection
Leam more about network bridging.	
	< <u>B</u> ack Next > Cancel

**8** Click Next. The *Give this computer a description and name* screen opens.

Network Setup Wizard						
Give this computer a description and name.						
Computer description: Gateway Profile Examples: Family Room Computer or Monica's Computer						
Computer name:	LIZPROFILE Examples: FAMILY or MONICA					
The current computer na						
Learn more about compu	ter names and descriptions.					
	< <u>B</u> ack Next > Cancel					

- **9** Type a description of the computer in the **Computer** description box.
- **10** Type a unique computer name in the **Computer name** box. This name identifies the computer to other users on the network. Use a computer name of up to 15 characters with no blank spaces. Each computer name must be unique on your network. All-numeric computer names are not allowed. Names must contain some letters.



You must give each computer on the network a unique Computer Name and the same Workgroup Name.

**11** Click Next. The Name your network screen opens.

Network Setup Wizard					
Name your network					
Name your network by should have the same v	specifying a workgroup name below. All computers on your network workgroup name.				
Workgroup name:	HOMENETWORK				
	Examples: HOME or OFFICE				
	< <u>B</u> ack <u>N</u> ext > Cancel				

- 12 Type a name for your workgroup in the Workgroup name box. Use a workgroup name of up to 15 characters with no blank spaces. The workgroup name must be the same for all computers in your network workgroup, and the name must be different than any computer name on your network.
- **13** Click Next. The *Ready to apply network settings* screen opens.

**14** Click **Next** to apply the network settings. The *You're almost done* screen opens.

Network Setup Wizard	
You're almost done	
You need to run the Network Setup Wizard once o network. To run the wizard on computers that are n the Windows XP CD or a Network Setup Disk.	n each of the computers on your ot running Windows XP, you can use
What do you want to do?	
Create a Network Setup Disk	
O Use the Network Setup Disk I already have	
◯ Use my Windows XP CD	
<ul> <li>Just finish the wizard; I don't need to run the wizard on</li> </ul>	other computers
< Bac	k Next > Cancel

- **15** If you are setting up an Ethernet network on other computers, you may want to use the Network Setup Wizard to do so. Click a method for installing and configuring the network on your other computers or click Just finish the wizard; I don't need to run the wizard on other computers.
- 16 Click Next.
- **17** Click **Finish**. After you name each computer and assign it to your workgroup, go to "Step 3: Configuring the TCP/IP protocol" on page 12.



# Step 3: Configuring the TCP/IP protocol

A *networking protocol* is a language computers use to talk to each other. One of several available protocols must be set up on each computer you plan to use on your network. We recommend you use the Transmission Control Protocol/Internet Protocol (TCP/IP), which is widely accepted and compatible for local area networks (LANs), as well as for Internet communications.

When networking is set up in Windows XP, TCP/IP is automatically installed as the default protocol.

### Terms you should know

**DHCP** - Dynamic Host Configuration Protocol (DHCP) lets a router automatically assign an IP address to a computer on the network.

**IP** Address - Internet Protocol (IP) address is a number that uniquely identifies a computer on the network.

# Setting up a DHCP IP address for each computer

In order to use the TCP/IP protocol on each computer, you must either set the protocol to **Obtain an IP address from a DHCP server** or make the IP address settings manually. If you use a wireless access point router that can act as the DHCP server, you can select **Obtain an IP address from a DHCP server**. Obtaining an IP address automatically using DHCP is one of the most common methods for setting up wireless network devices.

If your network configuration requires a static IP address (one that does not change), you must set the IP address manually. This means that you need to enter an IP address and a subnet mask. For more information about setting the IP address manually, see the *Setting Up Your Wireless Windows Network* guide included on the installation CD that came with your network device.

If you are connecting to a home Ethernet network, have a cable or DSL modem, and a wireless access point router that automatically assigns IP addresses to computers on the network, follow the instructions in "To set up a DHCP IP address:" on page 13.

### To set up a DHCP IP address:

- Click Start, then click Control Panel. The Control Panel window opens. If your Control Panel is in Category View, click Network and Internet Connections. The Network and Internet Connections window opens.
- 2 Click/Double-click Network Connections. The Network Connections window opens.
- **3** Right-click Wireless Network Connection, then click **Properties**. The Wireless Network Connection Properties dialog box opens.

General	Wireless Networks Advanced
Connec	t using:
<b>II</b> ) (	ateway Wireless 802.11G Adapter
	Configure
This c <u>o</u>	nnection uses the following items:
<b>⊻</b> %	QoS Packet Scheduler           Internet Protocol (TCP/IP)           gstall
Descr	iption
wide	smission Control Protocol/Internet Protocol. The default area network protocol that provides communication ss diverse interconnected networks.
Sho	$\underline{w}$ icon in notification area when connected

- 4 Click to select the Internet Protocol (TCP/IP) check box in the This connection uses the following items list. If you do not see TCP/IP, drag the scroll bar to see more choices.
- **5** Click **Properties**. The *Internet Protocol (TCP/IP) Properties* dialog box opens.

6 Click the General tab.

àeneral 🖉	Iternate Configuration					
this capab	et IP settings assigned au ility. Otherwise, you need priate IP settings.					
⊙ <u>0</u> bta	in an IP address automati	cally				
O U <u>s</u> e	the following IP address:					
<u>I</u> P addr	ess:					
Subnet	mask:					
<u>D</u> efault	gateway:					
⊙ 0 <u>b</u> ta	in DNS server address au	tomatically				
OUse	the following DNS server	addresses:				
Preferre	d DNS server:					
Alterna	e DNS server:					
					Ady	anced
		1	_	οк		Cance

- 7 Click Obtain an IP address automatically.
- **8** Click **ok** to close the *Internet Protocol (TCP/IP) Properties* dialog box.
- **9** Click **ok** to close the *Wireless Network Connection Properties* dialog box.
- **10** Click **x** to close the *Network Connections* window.
- **11** Repeat this procedure for every computer on your network.
- **12** After you set up the IP addresses on all your computers, go to "Where to go from here" on page 16.

### Turning the wireless emitter off



Radio frequency wireless communication can interfere with equipment on commercial aircraft. Current aviation regulations require wireless devices to be turned off while traveling in an airplane. IEEE 802.11a, IEEE 802.11b, and IEEE 802.11g communication devices are examples of devices that provide wireless communication.

You can turn off the wireless emitter to conserve the battery charge on your notebook computer or to make a computer unavailable on the network. There are times, such as when you are flying in an aircraft, when you should turn off your wireless emitter. For more safety and regulatory information, see "Safety, Regulatory, and Legal Information" on page 37.



#### To turn the wireless emitter off:

Click the remove hardware sicon in the taskbar, the PC Card name, then click Stop.
 - OR -

Turn off your computer.



If the remove hardware icon does not appear on the taskbar in Windows XP, click the show hidden icons of button.

### Where to go from here

### **Creating your wireless Ethernet network**

Now that you have configured your wireless Ethernet network, you are ready to create a wireless network. Go to the creating a wireless access point network or creating a peer-to-peer wireless network section in the *Setting Up Your Wireless Windows Network* guide included on the installation CD that came with your network device.

### Using your wireless Ethernet network

After you create and configure your wireless Ethernet network and you know how to turn your wireless emitter on and off, you are ready to use the network. Go to the sharing your resources section in the *Setting Up Your Wireless Windows Network* guide included on the installation CD that came with your network device.

# Troubleshooting your wireless Ethernet network

If you cannot get your wireless Ethernet network to work, go to the troubleshooting section in the *Setting Up Your Wireless Windows Network* guide included on the installation CD that came with your network device.

# Windows 98SE, Windows Me, and Windows 2000

2

This chapter describes how to install a Gateway wireless Ethernet PC Card on your Windows 98SE, Windows Me, or Windows 2000 computer and configure your computer for a wireless Ethernet network. Complete these tasks in sequence:

- "Step 1: Installing the hardware and software" on page 18.
- "Step 2: Configuring the PC Card" on page 24.
- "Step 3: Configuring the TCP/IP protocol" on page 28.

If you need to install and configure the PC Card for Windows XP, see "Windows XP" on page 1.



# Step 1: Installing the hardware and software

### Installing the Gateway Wireless Monitor

Use the following instructions to install the Gateway Wireless Monitor program.



To install the Gateway Wireless Monitor:

**1** Insert the CD that came with your PC Card into your computer's CD or DVD drive. If the program starts automatically, go to Step 5.

- OR -

If the program does not start automatically, go to Step 2.

- 2 Click Start, then click Run. The Run dialog box opens.
- **3** In the **Open** text box, type **d**:**\app\setup.exe** (where **d** is the drive letter of your CD or DVD drive).
- **4** Click **οκ**. The Gateway Wireless Monitor wizard starts.



#### **5** Click Next. The *License Agreement* screen opens.

InstallShield Wizard	×
Lisence Agreement	
Press the PAGE DOWN key to see the rest of the agreement.	
END-USER LICENSE AGREEMENT FDR Gateway Wretess LAN Adapter IMPORTANT-READ CAREFULLY: This Gateway End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and Gateway Corporation of the Gateway Software product leading, additional computer software and may include associated media, printed materials, additional computer software and may include associated media, printed materials, additional computer PRODUCT: By downloading, installing, corput, or otherwise using the SOFTWARE PRODUCT, you agree to be bound by the terms of this EULA. If you do not agree to the software and include Computer Software Agreement? If you choose No, the setup will coles. To install Gateway Wretess LAN Network Adapter, you must accept this agreement.	
< <u>Back</u> <u>Yes</u> <u>No</u>	

- **6** Click **Yes** to accept the License Agreement. The *Choose Destination Location* screen opens.
- 7 Click Next. The wizard installs the program on your computer.

nstallShield ₩izard				
Setup Status				
Gateway Wireless LAN N	etwork Adapter S	etup is performir	ng the requested	operations.
Installing:				
C:\Program Files\Gatewa	Wireless Monito	r\WLanCfgBl.ex	ĸe	
		4 <mark>9%</mark>		
				Cancel

8 When prompted, click Yes, I want to restart my computer now, then click Finish. Your computer restarts and completes the Gateway Wireless Monitor installation.

### Installing the PC Card in your computer

Use the following instructions to install the PC Card in your computer.



To install the PC Card in your computer:

 Push the card firmly into the PC Card slot label-side up until the black antenna is the only thing protruding from the side of your computer.



If this is the first time you have installed this PC Card into your computer, the Add New Hardware Wizard opens. To complete the PC Card installation, go to "Installing the PC Card driver" on page 21.

### Installing the PC Card driver

The following instructions tell you how to install the PC Card driver using the Add New Hardware Wizard.

Important

The instructions for installing the PC Card driver use the Add New Hardware Wizard. The example screens show the screens that typically appear in the course of using the wizard. If your operating system situation differs from that used in this example, you may encounter additional screens or screens with different selections. Make sure that you read each screen in the wizard and make your selections based on your particular network situation.



#### To install the PC Card driver

**1** When the Add New Hardware Wizard opens, insert the installation CD into the CD drive.



2 Click Next. The search for new drivers screen opens.

Add New Hardware Wiz	ard
	Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Elck New to start the search.       Broy d Skithmes       ©D-RDM drivel       Microsoft Windows Update       Specify a location:       C:\WINDOWS\SYSTEM32\DRIVERS       Browe
	<back next=""> Cancel</back>

- **3** Click to select the **CD-ROM drive** and **Specify a location** check boxes. Make sure that all other check boxes are cleared.
- 4 Click Browse. The Browse for Folder dialog box opens.

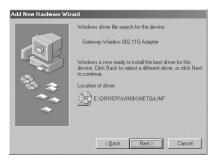


5 Navigate to the *Driver* folder located on the installation CD. For example, if you are installing drivers for Windows 98SE, click to highlight the Win9X folder located under the *Driver* folder on the installation CD.



If you are installing drivers for Windows Me, click the Win9X folder for the Windows Me driver installation.

**6** Click **οκ**. The Add New Wizard locates the PC Card driver.



- **7** Click **Next**. The device driver files are copied to the hard drive.
- **8** Click **ok** to restart your computer and complete the driver installation.

# Step 2: Configuring the PC Card

### Naming the computers and the workgroup

The first time you use networking on your computer, you need to give each computer a unique name and assign each computer to the same workgroup.

If you are naming the computers and workgroup in Windows 2000, see "To identify a Windows 2000 computer on the network:" on page 26.

If you are naming the computer and workgroup in Windows 98SE or Windows Me, see "To identify a Windows 98SE or Windows Me computer on the network:" on page 24.



To identify a Windows 98SE or Windows Me computer on the network:

- 1 Click Start, Settings, then click Control Panel. The Control Panel window opens.
- 2 If you are using Windows Me, click view all Control Panel options.
- 3 Double-click the Network icon. The Network dialog box opens.

4 Click the Identification tab.

Network
Configuration Identification Access Control
Vindows uses the following information to identify your computer on the network. Please type a name for this computer, the workgroup it will appear in, and a short description of the computer.
Computer name: MikeNotebook
Workgroup: HomeNetwork
Computer Gateway Notebook
OK Cancel

**5** Type a unique computer name in the **Computer name** box. This name identifies the computer to other users on the network. Use a computer name of up to 15 characters with no blank spaces. Each computer name must be unique on your network. All-numeric computer names are not allowed. Names must contain some letters.



You must give each computer on the network a unique Computer Name and the same Workgroup Name.

- **6** Type a name for your workgroup in the **Workgroup** box. Use a workgroup name of up to 15 characters with no blank spaces. The workgroup name must be the same for all computers in your network workgroup, and the name must be different than any computer name on your network.
- 7 Click **OK** to close the *Network* dialog box.
- 8 Click **x** to close the Control Panel.

**9** After you name each computer and assign it to your workgroup, go to "Step 3: Configuring the TCP/IP protocol" on page 28.



To identify a Windows 2000 computer on the network:

- 1 Click Start, Settings, then click Control Panel. The *Control Panel* window opens.
- **2** Double-click the **System** icon. The *System Identification* dialog box opens.
- **3** Click the Network Identification tab.
- 4 Click Properties. The *Identification Changes* dialog box opens.

Identification Changes		? ×
You can change the name a computer. Changes may affe		
Computer name:		
LizNotebookW/2K		
Full computer name: LizNotebookW2K.		
		More
Member of		
C <u>D</u> omain:	 	
<u>Workgroup:</u>		
HOMENETWORK		
	0K.	Cancel

**5** Type a unique computer name in the **Computer name** box. This name identifies the computer to other users on the network. Use a computer name of up to 15 characters with no blank spaces. Each computer name must be unique on your network. All-numeric computer names are not allowed. Names must contain some letters.



You must give each computer on the network a unique Computer Name and the same Workgroup Name.

- **6** Type a name for your workgroup in the **Workgroup** box. Use a workgroup name of up to 15 characters with no blank spaces. The workgroup name must be the same for all computers in your network workgroup, and the name must be different than any computer name on your network.
- 7 Click **OK** to close the *Identification Changes* dialog box.
- 8 Click **OK** to close the *System Identification* dialog box.
- **9** After you name each computer and assign it to your workgroup, go to "Step 3: Configuring the TCP/IP protocol" on page 28.

## Step 3: Configuring the TCP/IP protocol

A networking protocol is a language computers use to talk to each other. One of several available protocols must be set up on each computer you plan to use on your network. We recommend you use the Transmission Control Protocol/Internet Protocol (TCP/IP), which is widely accepted and compatible for local area networks (LANs), as well as for Internet communications.

When networking is set up in Windows, TCP/IP should automatically be installed as the default protocol. If it is not installed, see the Windows help.

### Terms you should know

**DHCP** - Dynamic Host Configuration Protocol (DHCP) lets a router automatically assign an IP address to a computer on the network.

**IP** Address - Internet Protocol (IP) address is a number that uniquely identifies a computer on the network.

# Setting up a DHCP IP address for each computer

In order to use the TCP/IP protocol on each computer, you must either set the protocol to **Obtain an IP address from a DHCP server** or make the IP address settings manually. If you use a wireless access point router that can act as the DHCP server, you can select **Obtain an IP address from a DHCP server**. Obtaining an IP address automatically using DHCP is one of the most common methods for setting up wireless network devices.

If your network configuration requires a static IP address (one that does not change), you must set the IP address manually. This means that you need to enter an IP address and a subnet mask. For more information about setting the IP address manually, see the *Setting Up Your Windows Network* guide included on the installation CD that came with your network device. If you are connecting to a home Ethernet network, have a cable or DSL modem, and a wireless access point router that automatically assigns IP addresses to computers on the network, follow the instructions in "To set up a DHCP IP address for Windows 98SE or Windows Me:" on page 29 or "To set up a DHCP IP address for Windows 2000:" on page 31.



To set up a DHCP IP address for Windows 98SE or Windows Me:

- 1 Click Start, Settings, then click Control Panel. The *Control Panel* window opens.
- 2 If you are using Windows Me, click view all Control Panel options.
- **3** Double-click the Network icon. The Network dialog box opens.

Network ?X
Configuration Identification Access Control
The following network components are installed:
TCP/IP -> AOL Adapter
3 TCP/IP -> AOL Dial-Up Adapter
TCP/IP -> Dial-Up Adapter TCP/IP -> Gateway Wireless 802.11G Adapter
TCP/IP > VIA PCI 10/100Mb Fast Ethernet Adapter
Add Remove Properties
Primary Network Logon:
Windows Logon
Eile and Print Sharing
Description TCP/IP is the protocol you use to connect to the Internet and wide-area networks.
OK Cancel

- 4 Click TCP/IP -> Gateway Wireless 802.11G PC Card Adapter. If you do not see TCP/IP, drag the scroll bar to see more choices.
- **5** Click **Properties**. The *TCP/IP Properties* dialog box opens.

**6** Click the IP Address tab, then click Obtain an IP address automatically.

CP/IP Properties				?
Bindings	Adv	anced	N	etBIOS
DNS Configuration	Gateway	WINS Cont	iguration	IP Address
An IP address can If your network doi your network admit the space below.	es not autor	natically assig	in IP addr	esses, ask
O Detain an IP O Specify an IF		omatically		
[P Address:				
Subnet Mas	k:			
☑ <u>D</u> etect conne	ection to ne	twork media		
		0		Cancel

- **7** Click **ok** to close the *TCP/IP Properties* dialog box.
- **8** Click **OK** to close the *Network* dialog box.
- **9** Click **x** to close the *Control Panel* window.
- **10** Repeat this procedure for every computer on your network.
- **11** After you set up the IP addresses on all your computers, go to "Where to go from here" on page 34.

#### To set up a DHCP IP address for Windows 2000:

- 1 Click Start, Settings, then click Network and Dial-up Connections. The Network and Dial-up Connections window opens. This window has an icon for each networking connection available on your computer. For example, if you have both wired and wireless Ethernet hardware installed on your computer, there will be at least two icons, one for your wired Ethernet hardware and one for your wireless Ethernet hardware.
- 2 Right-click the Local Area Connection icon for the wireless Ethernet hardware, then click Properties. The Local Area Connection Properties dialog box opens.

ocal Area Connection	3 Properties	?)
General Sharing		
Connect using:		
🗐 Gateway Wirele	ss 802.11G Adapter	
		Configure
Components checked	are used by this conne	ction:
Install	Uninstall	Properties
	Uninstall	Fiopences
wide area network p	I Protocol/Internet Prot rotocol that provides c	
actoss diverse interc	connected networks.	
Show icon in taskb		

**3** Click to select the Internet Protocol (TCP/IP) check box in the Components checked are used by this connection list. If you do not see TCP/IP, drag the scroll bar to see more choices.

**4** Click **Properties**. The *Internet Protocol (TCP/IP) Properties* dialog box opens.

rnet Protocol (TEP/IP) Pro	operties ?
	ed automatically if your network supports seed to ask your network administrator for
	omatically
C Use the following IP addre	ess:
[P address:	
Sybnet mask:	
Default gateway:	
	ss automatically
C Use the following DNS se	
Breferred DNS server:	
Alternate DNS server:	
	Advanced
	OK Cancel

- 5 Click Obtain an IP address automatically.
- **6** Click **ok** to close the *Internet Protocol (TCP/IP) Properties* dialog box.
- 7 Click **ok** to close the *Local Area Connection Properties* dialog box.
- **8** Click **x** to close the *Network and Dial-up Connections* window.
- **9** Repeat this procedure for every computer on your network.
- **10** After you set up the IP addresses on all your computers, go to "Where to go from here" on page 34.

## Turning the wireless emitter off



Radio frequency wireless communication can interfere with equipment on commercial aircraft. Current aviation regulations require wireless devices to be turned off while traveling in an airplane. IEEE 802.11a, IEEE 802.11b, and IEEE 802.11g communication devices are examples of devices that provide wireless communication.

You can turn off the wireless emitter to conserve the battery charge on your notebook computer or to make a computer unavailable on the network. There are times, such as when you are flying in an aircraft, when you should turn off your wireless emitter. For more safety and regulatory information, see "Safety, Regulatory, and Legal Information" on page 37.



To turn the wireless emitter off:

 In the Windows Me or Windows 2000, click the remove hardware sicon in the taskbar, the PC Card name, then click Stop.

- OR -

In Windows 98SE, remove the PC Card.

- OR -

Turn off your computer.



Some computers require you to press the PC Card eject button more than once to eject the PC Card.

## Where to go from here

### **Creating your wireless Ethernet network**

Now that you have configured your wireless Ethernet network, you are ready to create a wireless network. Go to the creating a wireless access point network or creating a peer-to-peer wireless network section in the *Setting Up Your Wireless Windows Network* guide included on the installation CD that came with your network device.

#### Using your wireless Ethernet network

After you create and configure your wireless Ethernet network and you know how to turn your wireless emitter on and off, you are ready to use the network. Go to the sharing your resources section in the *Setting Up Your Wireless Windows Network* guide included on the installation CD that came with your network device.

# Troubleshooting your wireless Ethernet network

If you cannot get your wireless Ethernet network to work, go to the troubleshooting section in the *Setting Up Your Wireless Windows Network* guide included on the installation CD that came with your network device.





## **Technical Support**

Gateway offers a wide range of customer service, technical support, and information services. Use the following information to contact Gateway for help.



## Automated troubleshooting system

Service	description	
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How to reach

Use an automated menu system and your telephone keypad to find answers to common problems.

800-846-2118 (US) 877-709-2945 (Canada)

### **Telephone numbers**

You can access the following services through your telephone to get answers to your questions:

Resource	Service description	How to reach
Fax on demand support	Order a catalog of documents on common problems, then order documents by document numbers. The documents will be faxed to you.	800-846-4526 (US) 877-709-2951 (Canada)
Gateway's fee-based software tutorial service	Get tutorial assistance for software issues billed by the minute.	800-229-1103 (charged to your credit card) 900-555-4695 (charged to your telephone bill)
Gateway Technical Support	Talk to a Gateway Technical Support representative about a non-tutorial technical support question.) TDD Technical Support (for hearing impaired) is available: Weekdays 6:00 a.m 8:00 p.m. Central Time Weekends 6:00 a.m 5:00 p.m. Central Time	800-846-2301 (US) 800-846-3609 (Canada and Puerto Rico) 605-232-2191 (all other countries) 800-846-1778 (TDD)
Sales, accounting, and warranty	Get information about available systems, pricing, orders, billing statements, warranty service, or other non-technical issues.	800-846-2000 (US) 888-888-2037 (Canada)

# Safety, Regulatory, and Legal Information

B

# Regulatory compliance statements

#### Wireless Guidance

The WGC-220 802.11g wireless LAN (low power Radio Frequency, RF, transmitting device) operates in the 2400 - 2483.5 MHz band. The following section is a general overview of considerations while operating the wireless LAN.

Limitations, cautions, and concerns are listed below and in the specific country sections (or country group sections). This wireless device is only qualified for use in the countries identified by the Radio Approval Marks on the device rating label. If the country you will be using the wireless device in is not listed, please



#### Appendix B: Safety, Regulatory, and Legal Information

contact that countries local Radio Approval agency for requirements prior to operation. Wireless devices are closely regulated and use may not be allowed.

The power output of the WGC-220 wireless LAN device is well below the RF exposure limits as known at this time. Because this wireless device emits less energy than is allowed in radio frequency safety standards and recommendations, Gateway believes these devices are safe for use. Regardless of the power levels, care should be taken to minimize human contact during normal operation.

Measurements have been performed to show that the RF exposure is below what is considered safe limits; however, care should be taken to make sure that the user or bystanders keep the transmitter away from their bodies when the wireless device is transmitting. The transmitting antenna should be installed and used in a manner to maintain .5 cm (.2 inch) from user's or bystanders' bodies.

This wireless device is intended to be used indoors. In some areas, use of this device outdoors is prohibited.

Some circumstances require restrictions on using wireless devices. Examples of common restrictions are listed below:



Radio frequency wireless communication can interfere with equipment on commercial aircraft. Current aviation regulations require wireless devices to be turned off while traveling in an airplane. IEEE 802.11b and IEEE 802.11g (also known as wireless Ethernet or Wifi) communication devices are examples of devices that provide wireless communication. For more information about turning off the wireless device, see "Turning the wireless emitter off" on page 15 and "Turning the wireless emitter off" on page 33.



In environments where the risk of interference to other devices or services is harmful or perceived as harmful, the option to use a wireless device may be restricted or eliminated. Airports, hospitals, and oxygen or flammable gas laden atmospheres are limited examples where use of wireless devices may be restricted or eliminated. When in environments where you are uncertain of the sanction to use wireless devices, ask the applicable authority for authorization prior to use or turning on the wireless device.

Every country has different restrictions on the use of wireless devices. Since your system is equipped with a wireless device, when traveling between countries with your system, check with the local Radio Approval authorities prior to any move or trip for any restrictions on the use of a wireless device in the destination country.



Warning

Do not operate the wireless device unless all covers and shields are in place and the system is fully assembled.



Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact Gateway for service. Appendix B: Safety, Regulatory, and Legal Information



Only use drivers approved for the country in which the device will be used. Install the Gateway device drivers included with your product, or contact Gateway Technical Support for additional information.



In order to comply with FCC requirements this transmitter must not be operated (or co-located) in conjunction with any other transmitter or antenna.

## United States of America

#### Federal Communications Commission (FCC) Intentional emitter per FCC Part 15

The power output of the WGC-220 wireless LAN device is well below the RF exposure limits as known at this time. Because this wireless device emits less energy than is allowed in radio frequency safety standards and recommendations, Gateway believes these devices are safe for use. Regardless of the power levels, care should be taken to minimize human contact during normal operation.

Measurements have been performed to show that the RF exposure is below what is considered safe limits; however, care should be taken to make sure the user or bystanders keep the transmitter away from their bodies when the wireless device is transmitting. The transmitting antenna should be installed and used in a manner to maintain .5 cm (.2 inch) from user's or bystanders' bodies.

This wireless device is intended to be used indoors. In some areas, use of this device outdoors is prohibited.

Operation of this device is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.



Wireless devices are not user serviceable. Do not modify them in any way. Modification to a wireless device will void the authorization to use it. Contact Gateway for service.

#### Unintentional emitter per FCC Part 15

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

**Compliance Accessories**: These accessories are required to be used in order to ensure compliance with FCC rules: None.

#### FCC declaration of conformity

Responsible party:

Gateway Companies, Inc. 610 Gateway Drive, North Sioux City, SD 57049 (605) 232-2000 Fax: (605) 232-2023

Product:

Gateway WGC-220

This device complies with Part 15 of the FCC Rules. Operation of this product is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Changes or modifications not expressly approved by Gateway could void the FCC compliance and negate your authority to operate the product.

## **California Proposition 65 Warning**



This product contains chemicals, including lead, known to the State of California to cause cancer and/or birth defects or reproductive harm.

# Notices

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#### **Trademark Acknowledgments**

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MAN 802.11G PC CRD INST GDE R0 8/03